## **WHAT IS CLAIMED IS:**

1. Compounds of the general formula (I), characterized in that

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- A is an optionally substituted  $C_1$ - $C_4$ -alkylene radical,
- R is one or more identical or different, linear or branched, optionally substituted C<sub>1</sub>-C<sub>18</sub>-alkyl radical(s), optionally substituted C<sub>5</sub>-C<sub>12</sub>-cycloalkyl radical(s), optionally substituted C<sub>6</sub>-C<sub>14</sub>-aryl radical(s), optionally substituted C<sub>1</sub>-C<sub>4</sub>-hydroxyalkyl radical(s) or one or more hydroxyl radical(s),
  - x is an integer from 0 to 8 and

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- n is 0 or 1.
- 2. Compounds according to Claim 1, characterized in that
- 20 A is an optionally substituted C<sub>2</sub>- or C<sub>3</sub>-alkylene radical,

- R is one or more identical or different, linear or branched, optionally substituted  $C_1$ - $C_{18}$ -alkyl radical(s), optionally substituted  $C_5$ - $C_{12}$ -cycloalkyl radical(s), optionally substituted  $C_6$ - $C_{14}$ -aryl radical(s), optionally substituted  $C_1$ - $C_4$ -hydroxyalkyl radical(s) or a hydroxyl radical,
- x is an integer from 0 to 6 and
- n is 0 or 1.

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- 3. Compounds according to Claim 1, characterized in that
  - A is an optionally substituted  $C_2$  or  $C_3$ -alkylene radical,
- 15 R is a linear or branched, optionally substituted  $C_1$ - $C_{14}$ -alkyl radical, an optionally substituted  $C_1$ - $C_2$ -hydroxyalkyl radical or a hydroxyl radical,
  - x is 0 or 1 and

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- n is 0 or 1.
- 4. Compounds according to Claim 1, characterized in that they have a structure of the general formulae (I-a-1) or (I-b-1),

$$H = \begin{bmatrix} S & & & \\ & & \\ & & & \\ & &$$

where

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n is 0 or 1.

5. Process for preparing compounds of the general formula (I)

$$\begin{array}{c|c}
A & R_x \\
\hline
A & S \\
\hline
A & R_x
\end{array}$$
(I)

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where

A, R, x and n are each as defined in Claim 1,

comprising reacting compounds of the general formula (II),

$$O_{S}^{A} = O_{S}^{R_{x}}$$
(II)

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where

A, R and x are each as defined in Claim 1,

- with each other in the presence of Lewis acids and/or protic acids as catalyst.
- Process for preparing compounds of the general formula (I) according to
   Claim 5, characterized in that the catalysts used are non-oxidizing Lewis
   acids.
- Process for preparing compounds of the general formula (I) according to Claim 6, characterized in that the catalysts used are Lewis acids selected from the group of the boron trihalides and aluminium trihalides, phosphorus trihalides, titanium tetrahalides or zirconium tetrahalides, tin(IV) halides, arsenic halides and antimony halides, tantalum pentahalides and zinc halides.
- 8. Process for preparing compounds of the general formula (I) according to
  Claim 7, characterized in that the catalysts used are Lewis acids selected

from the group of boron trifluoride, antimony pentachloride, titanium tetrachloride and tin tetrachloride.

- 9. Process for preparing compounds of the general formula (I) according to
   5 Claim 5, characterized in that the catalysts used are protic acids selected from the group of the sulphonic or carboxylic acids and superacids.
- Process for preparing compounds of the general formula (I) according to
   Claim 9, characterized in that the catalyst used is p-toluenesulphonic acid,
   methanesulphonic acid, camphor-10-sulphonic acid or trifluoroacetic acid.
  - 11. A process for preparing neutral or cationic polythiophenes comprising providing the compounds of the general formula (I).
- 15 12. Process for preparing neutral or cationic polythiophenes of the general formula (III)

where

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A, R and x are each defined in Claim 1 and

m is an integer from 2 to 200,

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comprising chemically or electrochemically, oxidatively polymerizing compounds of the general formula (I) according to Claim 1.

- A process for producing parts of electrical or electronic components
   comprising providing the compounds of the general formula (I) according to Claim 1.
  - 14. A process for producing a part of an electrical or electronic component comprising providing the compounds of the general formula (III) which have been prepared by a process according to Claim 12.
    - 15. The process of Claim 14 wherein the part is a cathode or a capacitor.